

U.S. Patent Application Serial No. 10/523,980
Reply to OA dated February 24, 2009

AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph on page 4, line 5 as follows:

In order to solve the above described problem and attain the object, there is provided, according to the present invention ~~as described in claim 1~~, a method for marking an electric wire which includes an electrically conductive core wire and an insulating sheath by injecting a certain amount of coloring agent to an outer face of the electric wire, wherein the electric wire is tightened in a state where a tensile force is applied in a longitudinal direction, and the coloring agent is injected from an upper side of the electric wire to an upper part of the outer face of the electric wire.

Please amend the paragraph on page 5, line 3 as follows:

In the method for marking an electric wire according to the invention ~~as described in claim 2~~, the coloring agent is injected toward an area including the uppermost position of the outer face of the electric wire.

Please amend the paragraph on page 5, line 17 as follows:

In the method for marking an electric wire according to the invention ~~as described in claim 3~~, the coloring agent is injected through an open end which is opposed to the outer face of the electric wire, and a line extending between a center of the open end and a center of the electric wire lies along a vertical direction.

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Please amend the paragraph on page 6, line 12 as follows:

According to the present invention ~~as claimed in claim 4~~, there is further provided an apparatus for marking an electric wire which includes an electrically conductive core wire and an insulating sheath, by injecting a certain amount of coloring agent to an outer face of the electric wire, the apparatus comprising tightening means for tightening the electric wire in a state where a tensile force is applied in a longitudinal direction, and injecting means provided above the electric wire which is tightened by the tightening means, and adapted to inject the coloring agent; wherein the injecting means injects the coloring agent from an upper side of the electric wire to an upper part of the outer face of the electric wire.

Please amend the paragraph on page 7, line 13 as follows:

In the apparatus for marking an electric wire according to the invention ~~as described in claim 5~~, the coloring agent is injected toward an area including the uppermost position of the outer face of the electric wire.

Please amend the paragraph on page 8, line 2 as follows:

In the apparatus for marking an electric wire according to the invention ~~as described in claim 6~~, the injecting means includes an open end which is opposed to the outer face of the electric wire, whereby the coloring agent is injected through the open end, and a line extending between a center of the open end and a center of the electric wire lies along a vertical direction.

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Please amend the paragraph on page 29, line 15 as follows:

As fully described herein above, according to the present invention ~~as claimed in claim 1~~, the electric wire is tightened with the tensile force, and therefore, positional displacement of the electric wire can be prevented. As the results, the coloring agent which has been injected toward the upper part of the outer face of the electric wire can be reliably adhered to this upper part of the electric wire. The coloring agent which has been adhered to the upper part of the electric wire reliably moves downward by gravity in a state adhered to the outer face of the electric wire. Therefore, by providing only one means or mechanism for injecting the coloring agent, it is possible to adhere the coloring agent to a part of the outer face of the electric wire along entire circumference thereof. Accordingly, the band mark can be formed by providing only one means or mechanism for injecting the coloring agent, and so, the overall cost for marking the electric wire can be decreased.

Please amend the paragraph on page 30, line 6 as follows:

According to the present invention ~~as claimed in claim 2~~, the coloring agent is injected toward an area located at the uppermost position of the electric wire. Therefore, the coloring agent which has been adhered to the electric wire reliably moves downward by gravity in a state adhered to the outer face of the electric wire. Therefore, by providing only one means or mechanism for injecting the coloring agent, it is possible to adhere the coloring agent reliably to a part of the outer face of the electric wire along entire circumference thereof. Accordingly, the band mark can be formed by providing only one means or mechanism for injecting the coloring agent, and so, the

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overall cost for marking the electric wire can be decreased.

Please amend the paragraph on page 30, line 19 as follows:

According to the present invention ~~as claimed in claim 3~~, the line extending between the center of the open end and the center of the electric wire lies along a vertical direction. Therefore, the open end is positioned right above the electric wire. As the results, the coloring agent is reliably adhered to the uppermost position of the electric wire. Therefore, the coloring agent which has been adhered to the electric wire moves downward more reliably by gravity in a state adhered to the outer face of the electric wire. Therefore, by providing only one means or mechanism for injecting the coloring agent, it is possible to adhere the coloring agent more reliably to a part of the outer face of the electric wire along entire circumference thereof. Accordingly, the band mark can be formed by providing only one means or mechanism for injecting the coloring agent, and so, the overall cost for marking the electric wire can be decreased.

Please amend the paragraph on page 31, line 10 as follows:

According to the present invention ~~as claimed in claim 4~~, the electric wire is tightened by the tightening means. Therefore, positional displacement of the electric wire can be prevented. The injecting means is positioned above the electric wire and injects the coloring agent toward the upper part of the electric wire. As the results, the coloring agent can be reliably adhered to the upper part of the electric wire. The coloring agent which has been adhered to the upper part of the electric wire

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moves downward by gravity in a state adhered to the outer face of the electric wire. For this reason, by providing only one injecting means, it is possible to adhere the coloring agent to a part of the outer face of the electric wire along the entire circumference thereof. Accordingly, because the band mark can be formed by providing only one means for injecting the coloring agent, the marking apparatus for the electric wire can be manufactured at a low cost, and the overall cost for marking the electric wire can be decreased.

Please amend the paragraph on page 32, line 2 as follows:

According to the present invention ~~as claimed in claim 5~~, the injecting means injects the coloring agent toward an area located at the uppermost position of the electric wire. Therefore, the coloring agent which has been adhered to the electric wire reliably moves downward by gravity in a state adhered to the outer face of the electric wire. For this reason, by providing only one means for injecting the coloring agent, it is possible to adhere the coloring agent to a part of the outer face of the electric wire along the entire circumference thereof. Accordingly, because the band mark can be formed by providing only one means for injecting the coloring agent, the marking apparatus for the electric wire can be manufactured at a low cost, and the overall cost for marking the electric wire can be decreased.

Please amend the paragraph on page 32, line 16 as follows:

According to the present invention ~~as claimed in claim 6~~, the line extending between the

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center of the open end of the injecting means and the center of the electric wire lies along a vertical direction. Therefore, the open end of the injecting means is positioned right above the electric wire. As the results, the coloring agent can be reliably adhered to the uppermost position of the electric wire. Therefore, the coloring agent which has been adhered to the electric wire moves downward by gravity in a state adhered to the outer face of the electric wire, more reliably. For this reason, by providing only one means for injecting the coloring agent, it is possible to adhere the coloring agent to a part of the outer face of the electric wire along the entire circumference thereof. Accordingly, because the band mark can be formed by providing only one means for injecting the coloring agent, the marking apparatus for the electric wire can be manufactured at a low cost, and the overall cost for marking the electric wire can be decreased.